

COUNTY COUNCIL OF BALTIMORE COUNTY, MARYLAND
Legislative Session 2009, Legislative Day No. 19

Bill No. 89-09

Mr. Joseph Bartenfelder, Chairman
By Request of County Executive

By the County Council, November 16, 2009

A BILL
ENTITLED

AN ACT concerning

The Plumbing and Gasfitting Code of Baltimore County

1 FOR the purpose of adopting the 2009 National Standard Plumbing Code with certain amendments,
2 deletions, and additions to the 2009 National Standard Plumbing Code to be known as the
3 Plumbing Code and Gasfitting Code of Baltimore County; making corresponding changes to
4 the county code; and generally relating to the adoption of the plumbing and gasfitting code.

5 By Adopting

6 The 2009 National Standard Plumbing Code - Illustrated

7 By repealing

8 The following sections within pages 1 through 7 titled Administration; 1.9.5; 1.9.6; 1.9.8;
9 1.9.9; 1.10.2; 1.10.3; 1.10.5; and the following sections within Chapters 1 through Chapter 18:
10 the following definitions in sections 1.2: Dead End, Potable Water; 2.16 a.; 2.19; 2.23b; 2.25.5;
11 2.26; 3.2.3; 3.4.2; 4.2.17; 5.4.7; 5.4.8; 6.2.9; 7.2; 10.2; 10.4.9; 10.5.9 EXCEPTION (4); 10.9.2;
12 10.12.6; 10.16.7; 11.7.6; 13.1.5; 13.1.10.1; 13.6 (section title only); 13.6.3; 15.3.1; 16.1.1;
13 16.6.1; 16.3.4; 16.9.2; 16.9.5; 17.2.; Table 3.4.2; Table 7.21.1 – Note 1; Table 11.5.1A –

EXPLANATION: CAPITALS INDICATE MATTER ADDED TO EXISTING LAW.
[Brackets] indicate matter stricken from existing law.
~~Strikeout~~ indicates matter stricken from bill.
Underlining indicates amendments to bill.

1 number of DFUs for 3 inch pipe; Table 13.6.2 – Note 2; Appendices F, H, I and J.

2 The 2009 National Standard Plumbing Code - Illustrated (as adopted in Section 1 of this Act)

3 By adding

4 Prefatory language and the following sections, subsections or portions thereof and additions
5 1.7.2, 1.9.5, 1.9.6, 1.9.8, 1.9.9, 1.10.2, 1.10.3, Chapter 1 (definitions of Adopting Agency and
6 Authority Having Jurisdiction), 2.16, 2.19.1, 2.25.5, 2.26, 2.27, 3.2.3, 3.4.2, modifications of
7 Tables 3.5, 3.6, and 3.7, 4.3.9, 5.4.7, 6.2.9, 7.2, 7.5.5, 10.2, 10.5.9, 10.5.9.1, 10.9.2, 10.9.3,
8 10.16.6, 10.15.9.2, 10.15.9.3, 10.16.7, 11.7.6, 15.3.1, 16.1.1, 16.3.4, 16.6.1, 16.6.7, 16.9.2,
9 16.9.5, 17.1.3, 17.2, 17.9, 17.15.1, 17.15.2, 19.1, and 19.2

10 The 2009 National Standard Plumbing Code - Illustrated (as adopted in Section 1 of this Act)

11 By repealing and reenacting, with amendments

12 Sections 3-3-1501, 3-3-1502(1), 3-3-1503(1), 3-3-1504(1), 3-3-1505, 3-3-1506, 3-3-1507(1),
13 3-3-1508, 3-3-1509, 3-3-1510, 3-6-101(b)(1), 21-4-303(b), 21-15-101(b) and (h), 21-15-
14 104(a), 21-15-105, 21-15-223(a), 21-15-401, and 35-5-201(b)

15 Baltimore County Code, 2003

16 SECTION 1. BE IT ENACTED BY THE COUNTY COUNCIL OF BALTIMORE COUNTY,
17 MARYLAND, that the 2009 National Standard Plumbing Code - Illustrated, is hereby adopted as the
18 “Plumbing Code and Gasfitting Code of Baltimore County.”

19 SECTION 2. AND BE IT FURTHER ENACTED, that the following portions of the newly
20 adopted Plumbing and Gasfitting Code of Baltimore County are hereby repealed:

21 The following sections within pages 1 through 7 titled Administration; 1.9.5; 1.9.6; 1.9.8;
22 1.9.9; 1.10.2; 1.10.3; 1.10.5; and the following sections within Chapters 1 through Chapter 18: the
23 following definitions in sections 1.2: Dead End, Potable Water; 2.16 a.; 2.19; 2.23b; 2.25.5; 2.26;

3.2.3; 3.4.2; 4.2.17; 5.4.7; 5.4.8; 6.2.9; 7.2; 10.2; 10.4.9; 10.5.9 EXCEPTION (4); 10.9.2; 10.12.6; 10.16.7; 11.7.6; 13.1.5; 13.1.10.1; 13.6 (section title only); 13.6.3; 15.3.1; 16.1.1; 16.6.1; 16.3.4; 16.9.2; 16.9.5; 17.2.; Table 3.4.2; Table 7.21.1 – Note 1; Table 11.5.1A – number of DFUs for 3 inch pipe; Table 13.6.2 – Note 2; Appendices F, H, I and J.

SECTION 3. AND BE IT FURTHER ENACTED, that the following sections, subsections and additions, Prefatory language and Sections 1.7.2, 1.9.5, 1.9.6, 1.9.8, 1.9.9, 1.10.2, 1.10.3, Chapter 1 (definitions of Adopting Agency and Authority Having Jurisdiction), 2.16, 2.19.1, 2.25.5, 2.26, 2.27, 3.2.3, 3.4.2, modifications of Tables 3.5, 3.6, and 3.7, 4.3.9, 5.4.7, 6.2.9, 7.2, 7.5.5, 10.2, 10.5.9, 10.5.9.1, 10.9.2, 10.9.3, 10.16.6, 10.15.9.2, 10.15.9.3, 10.16.7, 11.7.6, 15.3.1, 16.1.1, 16.3.4, 16.6.1, 16.6.7, 16.9.2, 16.9.5, 17.1.3, 17.2, 17.9, 17.15.1, 17.15.2, 19.1, and 19.2, be and they are hereby added to the Plumbing and Gasfitting Code of Baltimore County, to read as follows:

PREFACE - INTENT OF ILLUSTRATIONS, EXPLANATORY NOTES AND COMMENTS.

ANY CONFLICT BETWEEN THE 2009 NATIONAL STANDARD PLUMBING CODE – ILLUSTRATED AND THE BALTIMORE COUNTY CODE SHALL BE RESOLVED IN FAVOR OF THE COUNTY CODE. THE FIGURES, ILLUSTRATIONS, DIAGRAMS, EXPLANATORY NOTES AND EDITORIAL COMMENTS CONTAINED WITHIN THE 2009 NATIONAL STANDARD PLUMBING CODE - ILLUSTRATED ARE INTENDED TO SUPPLEMENT THE ACTUAL CODE TEXT AND HELP TO EXPLAIN THE GENERAL INTENT AND MEANING OF THE CODE. THE PIPING DIAGRAMS AND FIGURES ARE NOT INTENDED TO RESTRICT THE USE OF OTHER ARRANGEMENTS THAT SATISFY THE REQUIREMENTS OF THE WRITTEN CODE.

ADMINISTRATION SECTION

1 1.7.2 PENALTIES

2 ANY INDIVIDUAL, PARTNERSHIP, FIRM OR CORPORATION WHO SHALL VIOLATE OR
3 FAIL TO COMPLY WITH ANY OF THE REQUIREMENTS OF THIS CODE SHALL BE
4 DEEMED A VIOLATOR AND SUBJECT TO THE ENFORCEMENT PROCEDURES SET FORTH
5 IN ARTICLE 3, TITLE 6, OF THE BALTIMORE COUNTY CODE, 2003 AND THE CIVIL
6 PENALTIES SET FORTH IN SECTION 1-2-217 OF THE BALTIMORE COUNTY CODE, 2003.

7 1.9.5 APPROVED PLANS

8 ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPROVED PLANS WITHOUT
9 DEVIATION.

10 1.9.6 PLANS RETENTION

11 THE AUTHORITY HAVING JURISDICTION SHALL RETAIN ONE SET OF APPROVED PLANS
12 UNTIL FINAL APPROVAL OF THE WORK CONTAINED THEREIN. ONE SET OF PLANS AS
13 APPROVED SHALL BE KEPT ON THE JOB SITE AT ALL TIMES UNTIL FINAL APPROVAL
14 OF THE WORK CONTAINED THEREIN.

15 1.9.8 TIME LIMITATION ON PERMITS

16 ALL PERMITS SHALL BE ISSUED TO EXPIRE ONE YEAR AFTER THE DATE SUCH PERMIT
17 IS ISSUED, UNLESS THE TIME OF COMPLETION STATED IN THE APPLICATION CALLS
18 FOR A LONGER OR SHORTER PERIOD THAN ONE YEAR, IN WHICH EVENT THE TIME OF
19 EXPIRATION ON THE PERMIT SHALL BE FIXED SO AS TO ALLOW A REASONABLE TIME
20 TO COMPLETE THE WORK. ALL PERMITS FOR A SUBSTATION ISSUED TO A PUBLIC
21 SERVICE COMPANY, AS DEFINED IN TITLE 1 OF THE PUBLIC UTILITY COMPANIES
22 ARTICLE OF THE ANNOTATED CODE OF MARYLAND, SHALL BE ISSUED TO EXPIRE
23 FIVE YEARS AFTER THE DATE SUCH PERMIT IS ISSUED, PROVIDED THAT WITHIN ONE

1 YEAR AFTER THE ISSUANCE OF THE PERMIT THE SITE IS FENCED AND LANDSCAPED
2 AND A SIGN POSTED STATING THE PROPOSED USE OF THE COMPLETED PROJECT.
3 HOWEVER, AS TO ANY PERMIT, THE AUTHORITY HAVING JURISDICTION IS HEREBY
4 AUTHORIZED TO GRANT AN EXTENSION OF TIME NOT IN EXCESS OF ONE YEAR IN
5 WHICH TO COMPLETE THE WORK. IF THE WORK UNDER A PERMIT IS NOT COMPLETE
6 BEFORE THE PERMIT EXPIRATION DATE OR ANY EXTENSION THEREOF GRANTED BY
7 THE AUTHORITY HAVING JURISDICTION, THAT PERMIT AUTOMATICALLY BECOMES
8 A NULLITY.

9 1.9.9 REVOCATION OR SUSPENSION

10 AT ANY TIME, THE AUTHORITY HAVING JURISDICTION MAY SUSPEND OR REVOKE A
11 PERMIT ISSUED IN ERROR OR ON THE BASIS OF INCORRECT INFORMATION
12 SUBMITTED IN VIOLATION OF ANY SECTION OF THIS CODE.

13 1.10.2 PLAN REVIEW FEES

14 IF PLANS ARE REQUIRED TO BE SUBMITTED, THE AUTHORITY HAVING JURISDICTION
15 MAY CHARGE A PLAN REVIEW FEE NOT TO EXCEED THE SUM OF \$500.00.

16 1.10.3 PLAN APPROVAL LIMITATION

17 PERMIT APPLICATION AND PLAN REVIEW FOR WHICH NO PERMIT IS ISSUED SHALL
18 EXPIRE 6 MONTHS FOLLOWING THE DATE OF APPLICATION. ALL PLAN REVIEW FEES
19 SHALL BE FORFEITED AND THE PLANS MAY BE DESTROYED BY THE AUTHORITY
20 HAVING JURISDICTION OR RETURNED TO THE APPLICANT.

21 **CHAPTER 1 DEFINITIONS**

ADOPTING AGENCY SHALL MEAN THE COUNTY COUNCIL OF BALTIMORE COUNTY,
MARYLAND.

AUTHORITY HAVING JURISDICTION SHALL MEAN THE BALTIMORE COUNTY
DEPARTMENT OF PERMITS AND DEVELOPMENT MANAGEMENT.

CHAPTER 2 – GENERAL REGULATIONS

2.16 FREEZING OR OVERHEATING

A. THE PLUMBING SYSTEM SHALL BE PROTECTED FROM FREEZING OR OVERHEATING.
THE FOLLOWING CONDITIONS SHALL BE MET:

1. WATER SERVICE PIPING SHALL BE INSTALLED BELOW RECORDED FROST LINES.
MINIMUM EARTH COVER ABOVE THE TOP OF THE PIPE SHALL BE 36 INCHES.

2. MINIMUM EARTH COVER FOR BUILDING SEWERS THAT CONNECT TO PUBLIC
SEWAGE SYSTEMS SHALL BE 30 INCHES ABOVE THE TOP OF THE PIPE. MINIMUM
EARTH COVER FOR BUILDING SEWERS THAT CONNECT TO INDIVIDUAL SEWAGE
DISPOSAL SYSTEMS SHALL BE 24 INCHES ABOVE THE TOP OF THE PIPE.

2.19 CONNECTION TO PUBLIC WATER AND SEWER SYSTEMS

2.19.1 AVAILABILITY OF PUBLIC WATER AND SEWER

THE WATER DISTRIBUTION AND DRAINAGE SYSTEMS OF ANY BUILDING IN WHICH
PLUMBING FIXTURES ARE INSTALLED SHALL BE CONNECTED TO A PUBLIC WATER
SUPPLY AND SEWER SYSTEM RESPECTIVELY IF THE PUBLIC WATER SUPPLY AND/OR
PUBLIC SEWER IS WITHIN 500 FEET OF ANY PROPERTY LINE OF THE PREMISES, OR
OTHER REASONABLE DISTANCE AS DETERMINED BY THE AUTHORITY HAVING
JURISDICTION.

2.25 FOOD HANDLING ESTABLISHMENTS AND FOOD HANDLING AREAS WITHIN BUILDING

2.25.5 FLOOR SINK

FLOOR SINKS IN FOOD HANDLING AREAS SHALL BE OF THE SANITARY DESIGN WITH SMOOTH, CORROSION-RESISTANT SURFACES THAT CAN BE READILY CLEANED AND INSTALLED FLUSH WITH THE FINISHED FLOOR.

2.26 ELEVATOR SUMP PITS

A. SUMP PITS IN SHAFTS FOR ELECTRIC ELEVATORS SHALL BE DRAINED BY GRAVITY OR BY SUMP PUMPS THAT DISCHARGE TO AN APPROVED LOCATION APPROVED BY THE AUTHORITY HAVING JURISDICTION.

B. SUMP PITS IN SHAFTS FOR HYDRAULIC ELEVATORS SHALL BE DRAINED BY SUMP PUMPS THAT ARE EQUIPPED WITH LEVEL SENSORS THAT WILL PREVENT THE PUMP FROM OPERATING WHENEVER OIL IS DETECTED ON THE SURFACE OF THE WATER IN THE SUMP.

C. SUMP PITS SHALL BE COVERED WITH A REMOVABLE COVER THAT IS FLUSH WITH THE FLOOR AT THE BOTTOM OF THE SHAFT.

2.27 IDENTIFICATION OF SYSTEM PIPING

WHERE PLUMBING SYSTEM PIPING IS IDENTIFIED BY THE INSTALLATION OF LABELS OR MARKERS, THEY SHALL COMPLY WITH THE REQUIREMENTS OF ASME A13.1-2007, SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS.

CHAPTER 3 - MATERIALS

3.2 SPECIAL MATERIALS

3.2.3 PLASTIC

A. PLASTIC PIPING MATERIALS FOR SPECIFIC APPLICATIONS SHALL BE AS LISTED IN SECTIONS 3.4 THROUGH 3.11.

B. WHERE PLASTIC PIPING PENETRATES WALLS, FLOORS, OR CEILINGS THAT ARE REQUIRED TO BE FIRE RATED, THE PENETRATION SHALL BE PROTECTED BY APPROVED INTUMESCENT FIRE STOPPING.

C. PLASTIC PIPING SHALL NOT BE INSTALLED IN AIR PLENUMS.

D. PROVISIONS SHALL BE MADE FOR THERMAL EXPANSION OF PLASTIC PIPING BY THE USE OF OFFSETS, EXPANSION LOOPS, OR EXPANSION JOINTS. ACCESS SHALL BE PROVIDED FOR MECHANICAL EXPANSION DEVICES.

E. PLASTIC TRAPS AND TAILPIECES SHALL HAVE 0.062" MINIMUM WALL THICKNESS.

F. PLASTIC SHEETING UNDER SHOWER PANS SHALL COMPLY WITH THE STANDARDS LISTED IN TABLE 3.1.3.

3.4.2 WATER SERVICE PIPING

WATER SERVICE PIPE AND PIPE FITTINGS TO THE POINT OF ENTRANCE INTO A BUILDING THROUGH A FOUNDATION WALL OR FLOOR SHALL BE OF MATERIALS LISTED IN TABLE 3.4 MODIFIED AS FOLLOWS: WATER SERVICE PIPE AND FITTINGS SHALL BE RATED FOR NOT LESS THEN 200 PSIG AT 73°F AND TYPE M COPPER WATER TUBE IS NOT PERMITTED FOR WATER SERVICE.

3.5 SANITARY DRAINAGE PIPING

TABLE 3.5 IS MODIFIED AS FOLLOWS: TYPE M COPPER TUBE IS NOT PERMITTED FOR SEWERS OUTSIDE OF BUILDINGS AND FOR UNDERGROUND PIPING WITHIN BUILDINGS.

3.6 VENT PIPING

TABLE 3.6 IS MODIFIED AS FOLLOWS: TYPE M COPPER WATER TUBE IS PROHIBITED UNDERGROUND.

3.7 MATERIALS FOR STORM DRAINAGE

TABLE 3.7 IS MODIFIED AS FOLLOWS: TYPE M COPPER WATER TUBE IS PROHIBITED UNDERGROUND.

CHAPTER 4 – JOINTS AND CONNECTIONS

4.3 TYPES OF JOINTS BETWEEN DIFFERENT PIPING MATERIALS

4.3.9 ABS OR PVC PLASTIC DWV TO OTHER MATERIAL

A. THREADED JOINTS: ABS OR PVC DWV JOINTS WHEN THREADED SHALL USE THE PROPER MALE OR FEMALE THREADED ADAPTER. USE ONLY APPROVED THREAD TAPE OR LUBRICANT SEAL OR OTHER APPROVED MATERIAL AS RECOMMENDED BY THE MANUFACTURER. THREADED JOINTS SHALL NOT BE OVER-TIGHTENED. AFTER HAND TIGHTENING THE JOINT, MAKE A ONE-HALF TO ONE FULL TURN WITH A STRAP WRENCH.

B. CAST-IRON HUB JOINTS: JOINTS IN SOLID-WALL PLASTIC PIPE (NOT HOLLOW CORE) MAY BE MADE BY CAULKING WITH MOLTEN LEAD AND OAKUM OR BY USE OF A COMPRESSION GASKET THAT IS COMPRESSED WHEN THE PLASTIC PIPE IS INSERTED INTO THE CAST-IRON HUB END OF THE PIPE. NO ADAPTERS ARE REQUIRED FOR THIS CONNECTION.

C. CAST-IRON SPIGOT ENDS, SCHEDULE 40 STEEL PIPE OR COPPER DWV TUBE: JOINTS BETWEEN THESE MATERIALS AND PLASTIC SHALL BE JOINED WITH AN APPROVED ADAPTER FITTING.

D. THE SOLVENT CEMENTED NON-PRESSURE JOINT BETWEEN DISSIMILAR PLASTIC MATERIALS, ABS/PVC BUILDING DRAINS AND/ OR BUILDING SEWERS, SHALL BE MADE USING AN ASTM D3138 SOLVENT CEMENT INTENDED FOR ABS/PVC TRANSITION JOINTS.

CHAPTER 5 – TRAPS, CLEANOUTS AND BACKWATER VALVES

5.4 DRAINAGE PIPE CLEANOUTS

5.4.7 DIRECTION OF FLOW

CLEANOUTS SHALL BE INSTALLED SO THAT THE CLEANOUT OPENS IN THE DIRECTION OF THE FLOW OF THE DRAINAGE LINE. TWIN CLEANOUTS AND TWO-WAY CLEANOUTS DEPICTED IN TABLE 5.4.7 ARE PROHIBITED.

6.2 GREASE INTERCEPTORS

6.2.9 CHEMICALS - WHERE PROHIBITED

THE USE OF ENZYMES, EMULSIFIERS, OR SIMILAR CHEMICALS IN HYDRO-MECHANICAL GREASE INTERCEPTORS, GRD GREASE INTERCEPTORS, AND GRAVITY INTERCEPTORS IS PROHIBITED.

CHAPTER 7 – PLUMBING FIXTURES, FIXTURE FITTINGS AND PLUMBING APPLIANCES

7.2 FIXTURES FOR ACCESSIBLE USE

PLUMBING FIXTURES FOR USE BY HANDICAPPED OR DISABLED PEOPLE AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE SECTIONS OF FEDERAL AND STATE LAW PROVIDING ACCESSIBILITY AND USABILITY FOR PHYSICALLY HANDICAPPED PEOPLE.

7.5 URINALS

7.5.5 ACCESSIBLE USE

URINALS FOR ACCESSIBLE USE SHALL HAVE ELONGATED RIMS THAT ARE NO HIGHER THAN 17 INCHES ABOVE THE FINISHED FLOOR.

CHAPTER 10 – WATER SUPPLY AND DISTRIBUTION

10.2 IDENTIFICATION OF NON-POTABLE WATER PIPING

A. WHERE NON-POTABLE WATER DISTRIBUTION SYSTEMS ARE INSTALLED FOR IRRIGATION, WATER CLOSETS, URINALS, OR OTHER NON-POTABLE WATER USES, THE NON-POTABLE WATER PIPING SHALL BE VISIBLY IDENTIFIED TO DIFFERENTIATE IT FROM POTABLE WATER PIPING.

B. NON-POTABLE WATER PIPE SHALL BE PURPLE IN COLOR AND BE LISTED IN TABLE 3.4 FOR POTABLE WATER. DISTRIBUTION PIPING FOR POTABLE WATER SHALL NOT BE PURPLE.

C. NON-POTABLE WATER PIPING SHALL BE IDENTIFIED BY DISTINCTIVE LABELS MARKED “NON-POTABLE WATER” THAT COMPLY WITH ASME A13.1-2007 AND HAVE SAFETY PURPLE BACKGROUND COLOR AND WHITE LETTER COLOR. ONE OR MORE LABELS SHALL BE VISIBLE FROM ALL POINTS OF OBSERVATION. PIPING THAT PASSES THROUGH WALLS SHALL BE IDENTIFIED ON BOTH SIDES OF THE WALL. WHERE PIPING IS CONCEALED WITHIN CEILINGS, WALLS, OR OTHER CONSTRUCTION, AT LEAST ONE LABEL SHALL BE VISIBLE FROM ANY POSSIBLE POINT OF ACCESS, INCLUDING THROUGH THE CONCEALMENT. PIPING THAT WILL BE CONCEALED SHALL BE LABELED PRIOR TO BEING CONCEALED.

1 **10.5 BACKFLOW PREVENTION**

2 10.5.9 PROTECTION FROM FIRE SYSTEMS

3 A. EXCEPTIONS

4 (4) WHERE FIRE PROTECTION SYSTEMS INCLUDE A FIRE DEPARTMENT CONNECTION,
5 REDUCED PRESSURE ASSEMBLIES (RPF OR RPDF) SHALL BE PROVIDED UNLESS
6 DOUBLE CHECK VALVE ASSEMBLIES (DCF OR DCDF) ARE PROPOSED AND ARE
7 APPROVED BY THE AUTHORITY HAVING JURISDICTION.

8 (6) THE AUTHORITY HAVING JURISDICTION MAY PERMIT A SINGLE CHECK VALVE TO
9 PROVIDE BACKFLOW PROTECTION FOR A RESIDENTIAL FIRE SPRINKLER SYSTEM IF
10 THERE IS INSUFFICIENT PUBLIC WATER PRESSURE FOR A CONVENTIONAL BACKFLOW
11 PREVENTION DEVICE AND THE INSTALLATION COMPLIES WITH ALL REQUIREMENTS
12 OF SECTION 10.5.9.1.

13 10.5.9.1 INSUFFICIENT PUBLIC WATER PRESSURE FOR A RESIDENTIAL SPRINKLER
14 SYSTEM

15 A. IF THE MINIMUM AVAILABLE WATER PRESSURE IN A PUBLIC WATER SUPPLY IS
16 INSUFFICIENT TO OVERCOME THE RATED PRESSURE DROP FOR THE REQUIRED
17 BACKFLOW DEVICE LISTED IN SECTION 10.5.9 FOR A RESIDENTIAL FIRE SPRINKLER
18 SYSTEM, THE AUTHORITY HAVING JURISDICTION MAY PERMIT THE INSTALLATION
19 OF A SINGLE CHECK VALVE FOR BACKFLOW PROTECTION IF ALL OF THE FOLLOWING
20 CONDITIONS ARE MET:

- 21 1. THE FIRE SPRINKLER SYSTEM IS DESIGNED ACCORDING TO NFPA 13D -
22 *INSTALLATION OF SPRINKLER SYSTEMS IN ONE- AND TWO- FAMILY DWELLINGS*.
23 2. THE PIPING MATERIALS IN THE FIRE SPRINKLER SYSTEM ARE APPROVED FOR
24 POTABLE WATER ACCORDING TO CHAPTER 3.
25 3. THE WATER METER IS INCREASED TO 1" MINIMUM SIZE.
26 4. THE WATER SERVICE IS INCREASED TO 1-1/2" MINIMUM PIPE SIZE.

1 5. THE SHUTOFF VALVE FOR THE FIRE SPRINKLER SYSTEM IS A GATE VALVE, FULL-
2 PORTED BALL VALVE, OR OTHER FULL-WAY VALVE.

3 6. THE FIRE SPRINKLER SYSTEM IS FILLED WITH POTABLE WATER AND CONTAINS NO
4 ANTI-FREEZE SOLUTIONS OR OTHER CHEMICAL ADDITIVES.

5 7. THE CHECK VALVE IS RESILIENTLY SEATED AND IS APPROVED BY THE AUTHORITY
6 HAVING JURISDICTION.

7 8. PRESSURE GAUGES ARE INSTALLED IN THE INLET AND OUTLET SIDES OF THE
8 CHECK VALVE TO INDICATE BACKFLOW PAST THE VALVE SEAT.

9 **10.9 FLUSHING AND DISINFECTING POTABLE WATER SYSTEMS**

10 SECTION 10.9.2 IS ADOPTED WITH THE FOLLOWING CLARIFICATIONS:

11 (1) DISINFECTING IS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

12 (2) ALL WATER SERVICE PIPING, HOT AND COLD WATER DISTRIBUTION PIPING,
13 HOT WATER HEATERS, AND WATER STORAGE OR PRESSURE TANKS IN NEW OR
14 RENOVATED POTABLE WATER SYSTEMS SHALL BE DISINFECTED AFTER FLUSHING
15 AND PRIOR TO USE.

16 (3) FAUCET AERATORS AND SCREENS SHALL BE REMOVED PRIOR TO INITIAL
17 FLUSHING.

18 (4) FAUCET AERATORS AND SCREENS THAT WERE REMOVED PRIOR TO INITIAL
19 FLUSHING SHALL BE REPLACED AFTER DISINFECTING AND FINAL FLUSHING.

20 **10.9.3 ADDITIONS TO EXISTING SYSTEMS**

21 A. WHERE PIPING IS ADDED TO OR EXTENDED FROM AN EXISTING POTABLE WATER
22 PIPING SYSTEM, ONLY THE ADDED OR EXTENDED PIPING SHALL BE REQUIRED TO BE
23 FLUSHED AND DISINFECTED IF IT CAN BE COMPLETELY ISOLATED FROM THE
24 EXISTING PIPING FOR THE PURPOSE OF FLUSHING AND DISINFECTING.

25 B. WHERE NEW PIPING CANNOT BE ISOLATED FROM AN EXISTING POTABLE WATER
26 PIPING SYSTEM, BOTH THE NEW AND EXISTING PIPING SHALL BE FLUSHED AND
27 DISINFECTED.

10.15 HOT WATER

10.15.6 MIXED WATER TEMPERATURE CONTROL

J. WHERE A MIXED WATER TEMPERATURE CONTROL DEVICE SUPPLIES ONE OR MORE OUTLETS THAT CAN BE SHUT OFF DOWNSTREAM FROM THE CONTROL DEVICE, CHECK VALVES SHALL BE PROVIDED IN THE HOT AND COLD WATER SUPPLY LINES TO THE CONTROL DEVICE TO PREVENT CROSS FLOW THROUGH THE DEVICE.

10.15.9 DRIP PANS

10.15.9.2 CONSTRUCTION

C. DRIP PANS SHALL NOT BE DEEPER THAN THE BOTTOM OF THE WATER HEATER TANK OR STORAGE TANK.

10.15.9.3 DRAINAGE

C. DRAINAGE FROM DRIP PANS SHALL NOT DISCHARGE TO THE FLOOR.

10.16.7 VACUUM RELIEF VALVES

A. WHERE THE OUTLET OF A TANK-TYPE WATER HEATER OR HOT WATER STORAGE TANK IS LOCATED ABOVE A HOT WATER OUTLET THAT IT SERVES, THE WATER HEATER OR STORAGE TANK SHALL BE PROVIDED WITH VACUUM RELIEF TO PROTECT THE STORAGE TANK AND PREVENT THE WATER HEATER FROM BEING DRAWN DOWN BY SUCTION AND DAMAGED BY DRY-FIRING.

B. WHERE A WATER HEATER AND/OR HOT WATER STORAGE TANK IS LOCATED ON THE SUCTION SIDE OF A WATER PRESSURE BOOSTER PUMP, THE WATER HEATER AND STORAGE TANK SHALL BE PROTECTED BY VACUUM RELIEF VALVES.

C. WHERE WATER HEATERS ARE LOCATED ABOVE A HOT WATER STORAGE TANK THAT THEY SERVE, VACUUM RELIEF SHALL BE PROVIDED FOR THE WATER HEATER.

D. WHERE A WATER HEATER IS LOCATED BELOW A HOT WATER STORAGE TANK

1 THAT IT SERVES, AND THE STORAGE TANK SERVES A HOT WATER OUTLET BELOW
2 THE ELEVATION OF THE WATER HEATER, VACUUM RELIEF SHALL BE PROVIDED FOR
3 THE STORAGE TANK. IF VACUUM RELIEF FOR THE STORAGE TANK IS ISOLATED BY
4 TANK SHUTOFF VALVES, VACUUM RELIEF SHALL ALSO BE PROVIDED FOR THE
5 WATER HEATER.

6 E. VACUUM RELIEF VALVES FOR WATER HEATERS SHALL BE INSTALLED IN THE COLD
7 WATER SUPPLY PIPING TO THE WATER HEATER AT AN ELEVATION AT LEAST TWO
8 FEET ABOVE THE TOP OF THE WATER HEATER.

9 F. VACUUM RELIEF VALVES FOR HOT WATER STORAGE TANKS SHALL BE LOCATED
10 IN THE HOT WATER INLET OR OUTLET PIPING AT AN ELEVATION AT LEAST TWO FEET
11 ABOVE THE TOP OF THE TANK.

12 G. VACUUM RELIEF VALVES SHALL COMPLY WITH ANSI Z21.22 AND BE RATED FOR
13 NOT LESS THAN 210°F.

14 H. VACUUM RELIEF VALVES SHALL BE THE FULL SIZE OF THE WATER PIPING SERVING
15 THE WATER HEATER OR WATER STORAGE TANK THAT THEY ARE PROTECTING.

16 **CHAPTER 11 – SANITARY DRAINAGE SYSTEMS**

17 **11.7 SUMPS AND EJECTORS**

18 **11.7.6 GRINDER PUMP EJECTOR**

19 E. THE DISCHARGE PRESSURE OF GRINDER PUMPS SHALL BE COORDINATED WITH
20 THE OPERATING PRESSURES OF THE COMMUNITY OR MUNICIPAL SEWER SYSTEM
21 INTO WHICH THEY PUMP.

22 **CHAPTER 15 – TESTS AND MAINTENANCE**

1 **15.3 TESTING OF PLUMBING SYSTEMS**

2 15.3.1 GENERAL

3 NEW PLUMBING SYSTEMS AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN
4 ALTERED, OR REPAIRED SHALL BE TESTED FOR LEAKS AND DEFECTS.

5 **CHAPTER 16 – REGULATIONS GOVERNING INDIVIDUAL SEWAGE DISPOSAL SYSTEMS**
6 **FOR HOMES AND OTHER ESTABLISHMENTS WHERE PUBLIC SEWAGE SYSTEMS ARE**
7 **NOT AVAILABLE**

8 **16.1 GENERAL PROVISIONS**

9 16.1.1 GENERAL

10 THE USE AND MAINTENANCE OF AN ON-SITE SEWAGE DISPOSAL SYSTEM IS
11 GOVERNED BY TITLE 9 OF THE ENVIRONMENT ARTICLE OF THE ANNOTATED CODE
12 OF MARYLAND AND CHAPTERS 26.04.02 AND 26.04.03 OF THE CODE OF MARYLAND
13 REGULATIONS. THESE STATE OF MARYLAND REGULATIONS ARE HEREIN ADOPTED
14 BY REFERENCE.

15 **16.3 DESIGN OF INDIVIDUAL SEWAGE SYSTEM**

16 16.3.4 DISCHARGE. THE SYSTEM SHALL CONSIST OF A SEPTIC TANK DISCHARGING
17 INTO EITHER A SUBSURFACE DISPOSAL FIELD OR ONE OR MORE SEEPAGE PITS OR
18 INTO A COMBINATION OF BOTH, IF FOUND ADEQUATE AS SUCH AND APPROVED BY
19 THE DIRECTOR OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND
20 RESOURCE MANAGEMENT, OR THE DIRECTOR’S DESIGNEE.

21 **16.6 CAPACITY OF SEPTIC TANKS**

22 16.6.1 LIQUID CAPACITY

23 A. THE LIQUID CAPACITY OF SEPTIC TANKS FOR SINGLE DWELLING UNITS HAVING
24 UP TO FIVE BEDROOMS SHALL BE NOT LESS THAN 1500 GALLONS. AN ADDITIONAL

250 GALLONS OF CAPACITY SHALL BE PROVIDED FOR EACH BEDROOM IN EXCESS OF FIVE. SINGLE DWELLING UNITS HAVING THREE OR MORE BEDROOMS SHALL BE SERVED BY SEPTIC TANKS HAVING TWO COMPARTMENTS.

B. REQUIRED SEPTIC TANK CAPACITIES FOR BUILDINGS OTHER THAN SINGLE DWELLING UNITS SHALL BE DETERMINED BY THE DIRECTOR OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND RESOURCE MANAGEMENT, OR THE DIRECTOR'S DESIGNEE, BASED ON THE PROJECTED PEAK SEWAGE FLOW AND OTHER PERTINENT CRITERIA.

16.6.7 DEPTH OF SEPTIC TANK

THE TOP OF THE SEPTIC TANK SHALL BE BROUGHT TO WITHIN 24 INCHES OF THE FINISHED GRADE. AN ACCESS MANHOLE MUST BE EXTENDED TO THE FINISHED GRADE.

16.9 ABSORPTION TRENCHES

16.9.2 FILTER MATERIAL

THE FILTER MATERIAL SHALL BE WASHED GRAVEL, CRUSHED STONE, OR CLEAN BANK RUN GRAVEL BETWEEN ½ INCH AND 2-1/2 INCHES IN SIZE. THE FILTER MATERIAL SHALL EXTEND TO THE FULL WIDTH OF THE TRENCH. IT SHALL BE NOT LESS THAN 6 INCHES BENEATH AND 2 INCHES ABOVE THE ABSORPTION LINES. THE FILTER MATERIAL SHALL BE COVERED WITH BURLAP, FILTER CLOTH, 2 INCHES OF STRAW, OR EQUIVALENT PERMEABLE MATERIAL.

16.9.5 ABSORPTION LINES

ABSORPTION LINES SHALL BE 4 INCH PERFORATED PLASTIC PIPE CONFORMING TO APPROVED STANDARDS. VERTICAL OBSERVATION PIPES SHALL BE PROVIDED AT THE END OF EACH ABSORPTION LINE THAT IS 4 FEET OR

MORE IN DEPTH. OBSERVATION PIPES SHALL BE PERFORATED WITHIN THE ENTIRE DEPTH OF THE FILTER MATERIAL. THE PORTION OF OBSERVATION PIPES THAT IS ABOVE THE FILTER MATERIAL SHALL BE SOLID EXTENDING TO 4 INCHES MINIMUM ABOVE GRADE AND BE CLOSED WITH A REMOVABLE CAP.

17.1 GENERAL REGULATION

17.1.3 CODE REFERENCE

WATER WELL CONSTRUCTION IN THE STATE OF MARYLAND IS REGULATED UNDER AUTHORITY OF TITLE 9, SUBTITLE 13, OF THE ENVIRONMENT ARTICLE OF THE ANNOTATED CODE OF MARYLAND AND CHAPTER 26.04.04 OF THE CODE OF MARYLAND REGULATIONS (COMAR). ADDITIONALLY, NON-COMMUNITY POTABLE WATER SYSTEMS ARE GOVERNED BY COMAR CHAPTER 26.04.02. THESE STATE OF MARYLAND REGULATIONS ARE HEREIN ADOPTED BY REFERENCE.

17.2 QUANTITY OF WATER REQUIRED

A. THE QUANTITY OF WATER REQUIRED SHALL BE SUBJECT TO THE REQUIREMENTS IN COMAR 26.04.04.07.P, WHICH ARE ADOPTED HEREIN BY REFERENCE.

B. WHERE THE AVAILABLE PRIMARY SOURCE OF WATER DOES NOT MEET THE REQUIREMENTS OF SECTION 17.2.A, ONE OF THE FOLLOWING SECONDARY WATER SOURCES SHALL BE PROVIDED:

1. A PRESSURE STORAGE TANK OF SUFFICIENT SIZE.
2. A GRAVITY STORAGE TANK OF SUFFICIENT SIZE AND A PRESSURE BOOSTER PUMP SYSTEM.

17.9 WELL TERMINALS

WELL TERMINALS SHALL BE SUBJECT TO THE REQUIREMENTS OF COMAR
26.04.04.07.5, WHICH ARE ADOPTED HEREIN BY REFERENCE.

17.15 INTER-CONNECTIONS

17.15.1 BETWEEN SYSTEMS

THERE SHALL BE NO CONNECTIONS BETWEEN AN INDIVIDUAL POTABLE WATER
SUPPLY SYSTEM AND A PUBLIC WATER SUPPLY SYSTEM.

17.15.2 BETWEEN PROPERTIES

NO INDIVIDUAL POTABLE WATER SYSTEM SHALL SERVE MORE THAN ONE PROPERTY
UNLESS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

CHAPTER 19 FUEL GAS PIPING AND EQUIPMENT

19.1 NATURAL GAS

NATURAL GAS PIPING AND EQUIPMENT SHALL COMPLY WITH THE NATIONAL
FUEL GAS CODE – NFPA 54 – 2009.

19.2 LIQUID PETROLEUM (LP) GAS

LIQUID PETROLEUM (LP) GAS PIPING AND EQUIPMENT SHALL COMPLY WITH THE
LIQUID PETROLEUM GAS CODE – NFPA 58 – 2008.

SECTION 4. AND BE IT FURTHER ENACTED, that Sections 3-3-1501, 3-3-1502(1), 3-3-
1503(1), 3-3-1504(1), 3-3-1505, 3-3-1506, 3-3-1507(1), 3-3-1508, 3-3-1509, 3-3-1510, 3-6-
101(b)(1), 21-4-303(b), 21-15-101(b) and (h), 21-15-104(a), 21-15-105, 21-15-223(a), 21-15-401,
and 35-5-201(b) of the Baltimore County Code, 2003, as amended, are hereby repealed and
reenacted, with amendments, to read as follows:
§ 3-3-1501.

1 There is a Plumbing AND GASFITTING Board as provided in Article V of the Charter.

2 § 3-3-1502.

3 (1) The Plumbing AND GASFITTING Board consists of seven members.

4 § 3-3-1503.

5 (1) The County Executive shall appoint the chairman of the Plumbing AND
6 GASFITTING Board.

7 § 3-3-1504.

8 (1) The Director of Environmental Protection and Resource Management and the Chief
9 Plumbing Inspector of the county may not receive additional compensation for their services on the
10 Plumbing AND GASFITTING Board.

11 § 3-3-1505.

12 Subject to adoption by the County Council, the Plumbing AND GASFITTING Board shall
13 propose rules and regulations required for the enforcement and operation of Article 21, Title 15,
14 Subtitle 2 of the Code.

15 § 3-3-1506.

16 There is a Plumbing AND GASFITTING Code Committee.

17 § 3-3-1507.

18 (1) The Plumbing AND GASFITTING Code Committee consists of eight members.

19 § 3-3-1508.

20 The Chief Plumbing Inspector of the county is the chairman of the Plumbing AND
21 GASFITTING Code Committee.

22 § 3-3-1509.

23 An appointed member of the Plumbing AND GASFITTING Code Committee:

24 (1) May not receive compensation as a member of the Committee; but

(2) Is entitled to reimbursement for expenses necessarily incurred, if approved by the Committee and provided for in the county operating budget.

§ 3-3-1510.

The Plumbing AND GASFITTING Code Committee shall advise and assist the Director of Permits and Development Management in proposing rules and regulations, approving materials, interpreting Article 21, Title 15 of the Code, and making recommendations for future revision of Article 21, Title 15 of the Code.

§ 3-6-101.

(b)(1) “Code” means the:

- (i) Building Code;
- (ii) Electric Code;
- (iii) Mechanical Code;
- (iv) Permits and licenses law and regulations;
- (v) Plumbing AND GASFITTING Code;
- (vi) Livability Code;
- (vii) Fire Code;
- (viii) Zoning Regulations; and
- (ix) Any other code, regulation, or standard administered by the Department of Permits and Development Management.

§ 21-4-303.

(b) In order to receive or renew a license under this section, a person shall submit to the Director certificates from:

(1) The Division of Code Inspection and Enforcement of the Department stating that the building to be occupied by the amusement hall or roller skating rink is structurally safe and that the building is in compliance with the applicable building, electric, and THE plumbing AND GASFITTING [codes] CODE;

(2) The Fire Marshal stating that the building is in compliance with the county Fire Prevention Code; and

1 (3) The Director of Environmental Protection and Resource Management stating that
2 the building and the premises on which the building is located are in compliance with the
3 standards and regulations of the Department of Environmental Protection and Resource
4 Management and the State Department of Health and Mental Hygiene.

5 § 21-15-101.

6 (b) (1) “Administrative authority” means the Director or the Director's designee.

7 (2) “ADMINISTRATIVE AUTHORITY” IS THE SAME AS THE “AUTHORITY
8 HAVING JURISDICTION” IN THE PLUMBING AND GASFITTING CODE OF BALTIMORE
9 COUNTY”.

10 (h) “Plumbing” has the meaning stated in the definition set forth in Chapter 1 of the
11 [2006] 2009 National Standard Plumbing Code.

12 § 21-15-104.

13 (a) The county shall adopt and enforce:

14 (1) A plumbing AND GASFITTING code; and

15 (2) Necessary regulations governing the use of water and sewer connections and for the
16 maintenance and operation of county systems.

17 § 21-15-105.

18 (a) The [county plumbing and gasfitting codes] PLUMBING AND GASFITTING
19 CODE OF BALTIMORE COUNTY, having been previously adopted and approved by the County
20 Council, is incorporated by reference in this section as if set out in full.

21 (b) A copy of the [plumbing and gasfitting codes] PLUMBING AND GASFITTING
22 CODE OF BALTIMORE COUNTY, as from time to time amended, shall be available for public
23 inspection and review at the Department.

24 § 21-15-223.

25 (a) After receiving a written request to act from the administrative authority, the Board

1 may suspend, revoke, or refuse to renew the license of any licensee or reprimand any licensee
2 whom the Board finds:

3 (1) Has engaged in conduct involving fraud, deceit, or misrepresentation to obtain a
4 license;

5 (2) Has been grossly negligent or incompetent as a plumber, or has engaged in other
6 professional misconduct;

7 (3) Violates, in the performance of work as a plumber, the county plumbing AND
8 GASFITTING code or the plumbing OR GASFITTING code of any subdivision in the state in
9 which the licensee has performed plumbing OR GASFITTING work;

10 (4) Commits an unfair or deceptive trade practice as defined in § 13-301 of the
11 Commercial Law Article of the Annotated Code of Maryland;

12 (5) Has failed to maintain a regular place of business;

13 (6) Makes any false or misleading statement in an application to the Board or during
14 any proceeding before the Board; or

15 (7) Sells, lends, or otherwise allows any improper use of a license or obtains permits for
16 others to do plumbing or gasfitting work.

17 § 21-15-401.

18 For the purpose of performing the duties under the county plumbing [or] AND gasfitting code
19 or enforcing the provisions of the county plumbing [or] AND gasfitting code, the administrative
20 authority, after showing the proper credentials or proof of identity, may enter any building,
21 structure, or premises at any time during daylight hours or at other times as may be necessary in
22 any emergency resulting from or arising out of any cause that endangers or tends to endanger the
23 public health or safety.

24 § 35-5-201.

25 (b) A property owner who is required to make a repair, alteration, or change of use to a structure
26 as a direct or indirect result of the enforcement of this subtitle, shall make the repair, alteration, or
27 change of use in accordance with the procedures and provisions of:

1 (1) The Building Code, Plumbing AND GASFITTING Code, Mechanical Code, and
2 Electrical Code; or

3 (2) Any other code or standard applicable to housing.

4 SECTION 5. AND BE IT FURTHER ENACTED, that this Act, having been passed by the
5 affirmative vote of five members of the County Council, shall take effect January 3, 2010.

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